

## Overview of materials for Linear Low Density Polyethylene (LLDPE), Blow Molding Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Blow Molding Grade

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Linear Low Density Polyethylene (LLDPE), Blow Molding Grade". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Overview-of-materials-for-Linear-Low-Density-Polyethylene-LLDPE-Blow-Molding-Grade.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Linear-Low-Density-Polyethylene-LLDPE-Blow-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.912 - 1.86 g/cc	0.0329 - 0.0672 lb/in <sup>3</sup>	Average value: 0.993 g/cc Grade Count:32
Particle Size	1.50 - 2.50 µm	1.50 - 2.50 µm	Average value: 1.83 µm Grade Count:3
Thickness	20.3 - 31.8 microns	0.800 - 1.25 mil	Average value: 24.8 microns Grade Count:23
Melt Flow	0.500 - 55.0 g/10 min	0.500 - 55.0 g/10 min	Average value: 3.58 g/10 min Grade Count:32

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.27 - 13.0 MPa	1200 - 1890 psi	Average value: 9.88 MPa Grade Count:24
Film Tensile Strength at Yield, TD	7.00 - 15.0 MPa	1020 - 2180 psi	Average value: 9.73 MPa Grade Count:24
Film Elongation at Break, MD	470 - 680 %	470 - 680 %	Average value: 551 % Grade Count:28
Film Elongation at Break, TD	520 - 840 %	520 - 840 %	Average value: 694 % Grade Count:28
Secant Modulus	0.170 - 0.240 GPa	24.7 - 34.8 ksi	Average value: 0.204 GPa Grade Count:3
Secant Modulus, MD	0.101 - 0.241 GPa	14.7 - 34.9 ksi	Average value: 0.166 GPa Grade Count:23
Secant Modulus, TD	0.124 - 0.333 GPa	18.0 - 48.3 ksi	Average value: 0.183 GPa Grade Count:23
Puncture Energy	1.59 - 4.41 J	1.17 - 3.25 ft-lb	Average value: 3.22 J Grade Count:15
Coefficient of Friction	0.220 - 0.800	0.220 - 0.800	Average value: 0.530 Grade Count:3
Elmendorf Tear Strength MD	80.0 - 550 g	80.0 - 550 g	Average value: 235 g Grade Count:11
Elmendorf Tear Strength TD	400 - 890 g	400 - 890 g	Average value: 535 g Grade Count:11

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, TD	16.0 - 31.0 g/micron	406 - 787 g/mil	Average value: 20.1 g/micron Grade Count:18
Dart Drop	5.51 - 55.0 g/micron	140 - 1400 g/mil	Average value: 18.3 g/micron Grade Count:18
Dart Drop Test	70.0 - 290 g	0.154 - 0.639 lb	Average value: 138 g Grade Count:14
Film Tensile Strength at Break, MD	30.0 - 75.8 MPa	4350 - 11000 psi	Average value: 52.1 MPa Grade Count:28
Film Tensile Strength at Break, TD	20.0 - 65.5 MPa	2900 - 9500 psi	Average value: 39.8 MPa Grade Count:28

Thermal Properties	Metric	English	Comments
Melting Point	114 - 127 °C	237 - 260 °F	Average value: 119 °C Grade Count:22

Optical Properties	Metric	English	Comments
Haze	1.40 - 42.0 %	1.40 - 42.0 %	Average value: 14.9 % Grade Count:26
Gloss	11.0 - 95.0 %	11.0 - 95.0 %	Average value: 44.6 % Grade Count:22

Processing Properties	Metric	English	Comments
Moisture Content	0.100 %	0.100 %	Average value: 0.100 % Grade Count:3

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